

REISSUE APPLICATION DECLARATION BY THE INVENTOR

Docket Number (Optional)
272/012

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is described and claimed in patent number 6,030,308, granted February 29, 2000, and for which a reissue patent is sought on the invention entitled ADJUSTABLE ENDLESS BELT FOR USE IN POWER TRANSMISSION AND APPARATUS AND METHODS FOR FORMING BELT,

the specification of which

☒ is attached hereto.

☐ was filed on _____ as reissue application number _____ / _____
and was amended on _____
(If applicable)

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)

☐ by reason of a defective specification or drawing.

☒ by reason of the patentee claiming more or less than he had the right to claim in the patent.

☐ by reason of other errors.

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:

At least one error upon which reissue is based is described as follows:

Claims 1-8 in the issued patent recite that the ends of the reinforcing ribbon are disposed in an adjacent disposition within the outer length of material or as being in an adjacent position substantially equidistantly between the ends of the outer length of material. It has been determined that these limitations are not necessary to practice the invention or to define patentable subject matter. The remaining independent claims, nos. 9 and 13, which do not contain such limitations are arguably overly broad in view of discovered U.S. Patent No. 2,985,222. Accordingly, claims 1, 9 and 13 were amended and new claims 17-24 are presented in this reissue as follows:

1. (Amended) An endless belt for use in power transmission comprising an outer length of flexible tear-resistant material having mating extended ends so as to form a closed loop and defining an endless channel extending longitudinally therethrough, an inelastic reinforcing ribbon of a flexible tear-resistant material disposed within said channel, said ribbon defining first and second ends and extending across said mating ends of said outer length of material and twice about said loop defined by said outer length of material so as to define two layers of reinforcing ribbon within said outer length of material, said first end of said ribbon being disposed adjacent to said second end thereof and an adhesive injected into said channel separately from said ribbon, said adhesive being disposed about said layers of ribbon and securing together said layers of ribbon and securing said ribbon to said outer length of material to maintain said outer length of material in said closed loop.

9. (Amended) An endless belt for use in power transmission comprising an outer length of flexible tear-resistant material having mating extended ends so as to form a closed loop and defining an endless channel extending longitudinally therethrough, an inelastic reinforcing ribbon of a flexible tear-resistant material disposed within said channel and extending about said loop defined by said outer length of material, said ribbon defining first and second end portions and extending across said mating ends of said outer length of material with said first end portion of said ribbon overlapping said second end portion thereof, and an adhesive injected into said channel separately from said ribbon, said adhesive being disposed about said ribbon and securing together said end portions of said ribbon and said ribbon to said outer length of material to maintain said outer length of material in said closed loop.

13. (Amended) An endless belt for use in power transmission comprising an outer length of flexible tear-resistant material having mating extended ends and forming a closed loop, said length of material defining an endless channel extending longitudinally therethrough, an inner surface, an outer surface, and a slit extending the length of said channel between said channel and said outer surface, an inelastic reinforcing ribbon of a flexible tear-resistant material disposed within said channel and extending about said loop defined by said outer length of material, said ribbon defining first and second end portions and extending across said mating ends of said outer length of material with said first end portion of said ribbon overlapping said second end portion thereof, and an adhesive injected into said channel separately from said ribbon, said adhesive being disposed about said ribbon and securing together said end portions of said ribbon and said ribbon to said outer length of material to maintain said outer length of material in said closed loop.

17. An endless belt for use in power transmission comprising an outer length of flexible tear-resistant material having mating extended ends so as to form a closed loop and defining an endless channel extending longitudinally therethrough, an inelastic reinforcing ribbon of a flexible tear-resistant material disposed within said channel, said ribbon defining first and second ends and extending across said mating ends of said outer length of material and twice about said loop defined by said outer length of material so as to define two layers of reinforcing ribbon within said outer length of material, and an adhesive injected into said channel separately from said ribbon, said adhesive being disposed about said layers of ribbon and securing together said layers of ribbon and securing said ribbon to said outer length of material to maintain said outer length of material in said closed loop.

18. An endless belt for use in power transmission comprising an outer length of flexible tear-resistant material having mating extended ends so as to form a closed loop and defining an endless channel extending longitudinally therethrough, an inelastic, flexible and tear-resistant reinforcing ribbon disposed within said channel, said ribbon being comprised of an adhesive cooperative material disposed about an inelastic and durable material and extending across said mating ends of said outer length of material and twice about said loop defined by said outer length of material so as to define two layers of reinforcing ribbon within said outer length of material, and an adhesive disposed within said channel about said layers of ribbon and securing together said layers of ribbon and securing said ribbon to said outer length of material to maintain said outer length of material in said closed loop.

19. The endless belt of claim 18 wherein said ribbon is of a braided construction such that said inelastic and durable material is encased within said adhesive cooperative material.

20. A belt assembly for forming an endless belt of a desired size for use in power transmission, said assembly comprising:

an outer length of flexible tear-resistant material defining an outer surface, an inner surface, a first end, a second end, an interior channel extending longitudinally therethrough, and a slit extending the length thereof from said outer surface to said channel;

and
an adhesive adapted to be injected through said slit into said channel throughout the length thereof;

an inelastic reinforcing ribbon comprised of a highly durable and inelastic inner portion and a relatively non-abrasive and adhesive cooperative outer portion, said ribbon being adapted to be inserted into said channel through said slit such that upon injecting said adhesive into and along said channel, placing said ends of said outer length of material in an abutting relationship and drawing said ribbon into said channel through said slit and about said outer length of material so that said ribbon extends in a flat disposition within said adhesive in said channel about said outer length of material and across the abutting ends thereof, said ribbon is secured to said outer length of material by said adhesive, defining a continuous belt of uniform construction.

21. An endless belt for use in power transmission comprising an outer length of flexible tear-resistant material having mating extended ends so as to form a closed loop and defining an endless channel extending longitudinally therethrough, an inelastic, flexible and tear-resistant reinforcing ribbon disposed within said channel and comprised of a highly durable and inelastic inner portion and a relatively non-abrasive and adhesive cooperative outer portion, said ribbon defining first and second end portions and extending about said loop defined by said outer length of material and across said mating ends of said outer length of material with said first end portion of said ribbon overlapping said second end portion thereof, and an adhesive disposed within said channel about said ribbon and securing together said end portions of said ribbon and ribbon to said outer length of material to maintain said outer length of material in said closed loop.

22. An endless belt for use in power transmission comprising an outer length of flexible tear-resistant material having mating ends so as to form a closed loop and defining an endless channel extending longitudinally therethrough, an inelastic, flexible and tear-resistant reinforcing ribbon disposed within said channel, said ribbon being comprised of a highly durable and inelastic inner portion and a relatively non-abrasive and adhesive cooperative outer portion and extending about said loop defined by said outer length of material and across said mating ends of said outer length of material, and an adhesive injected into said channel separately from said ribbon, said adhesive being disposed about said ribbon and securing said ribbon to said outer length of material to maintain said outer length of material in said closed loop.

23. An endless belt for use in power transmission comprising an outer length of flexible tear-resistant material having mating ends so as to form a closed loop and defining an endless channel extending longitudinally therethrough, an inelastic, flexible and tear-resistant reinforcing ribbon disposed within said channel, said ribbon being comprised of at least two different materials, a first of said materials being highly durable and inelastic, a second of said materials being substantially more adhesive cooperative than said first material and being braided about said first material so as to encase said first material therein, said ribbon extending about said loop defined by said outer length of material and across said mating ends of said outer length of material, and an adhesive injected into said channel separately from said ribbon, said adhesive being disposed about said ribbon and securing said ribbon to said outer length of material to maintain said outer length of material in said closed loop.

24. An endless belt for use in power transmission comprising an outer length of flexible tear-resistant material having mating ends so as to form a closed loop and defining an endless channel extending longitudinally therethrough, an inelastic, flexible and tear-resistant reinforcing ribbon disposed within said channel, said ribbon being comprised of at least two different materials, a first of said materials being highly durable and inelastic, a second of said materials being substantially more adhesive cooperative than said first material and being braided about said first material so as to encase said first material therein, said ribbon extending across said mating ends of said outer length of material and twice about said loop defined by said outer length of material so as to define two layers of reinforcing ribbon within said outer length of material, and an adhesive injected into said channel separately from said ribbon, said adhesive being disposed about said ribbon and securing together said layers of ribbon and securing said ribbon to said outer length of material to maintain said outer length of material in said closed loop.

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All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

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☐ Additional joint inventors are named on separately numbered sheets attached hereto.